



108236-130.ST25

#11

SEQUENCE LISTING

<110> Moore, Jeffrey G.

<120> Compositions and Methods for Protecting Tissues and Cells from Damage, and for Repairing Damaged Tissues

<130> 108236.130

<140> US 10/083,936

<141> 2002-02-27

<150> US 60/271,666

<151> 2001-02-27

<150> US 60/302,716

<151> 2001-07-03

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 939

<212> DNA

<213> Dolichos lablab

<400> 1

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aaccctgtga gttctagtgc gggaagagtg ttatatcttg caccattgcg cctttgggaa 180
gactctgcgg tattgacaag ctttgacacc attatcaact ttgaaatctc aacaccttac 240
acttctcgta tagctgatgg cttggccttc ttcattgcac cacctgactc tgtcatcagt 300
tatcatggtg gttttcttgg actctttccc aacgcaaaca ctctcaacaa ctcttccacc 360
tctgaaaacc aaaccaccac taaggctgca tcaagcaacg ttgttgctgt tgaatttgac 420
acctatctta atcccgatta tggatgacca aactacatac acatcggaat tgacgtcaac 480
tctattagat ccaaggtaac tgctaagtg gactggcaaa atgggaaaat agccactgca 540
cacattagct ataactctgt ctctaaaaga ctatctgtta ctagtattata tgctgggagt 600
aaacctgcca ctctctccta tgatattgag ttacatacag tgcttcctga atgggtcaga 660
gtagggttat ctgcttcaac tggacaagat aaagaagaa ataccgttca ctcatggtct 720
ttcacttcaa gcttgtggac caatgtggcg aagaaggaga atgaaaacaa gtatattaca 780
agaggcggtt tgtgatgata tatgtgtatc aatgattttc tatgtttataa gcatgtaatg 840
tgcgatgagt caataatcac aagtacagtg tagtacttgt atgttggttg tgtaagagtc 900
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<210> 2

<211> 264

<212> PRT

<213> Dolichos lablab

<400> 2

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Asp Leu Ile Phe Gln Gly His Ala Thr Ser Thr Asn Asn Val Leu Gln
```

20 25 30
 Val Thr Lys Leu Asp Ser Ala Gly Asn Pro Val Ser Ser Ser Ala Gly
 35 40 45
 Arg Val Leu Tyr Ser Ala Pro Leu Arg Leu Trp Glu Asp Ser Ala Val
 50 55 60
 Leu Thr Ser Phe Asp Thr Ile Ile Asn Phe Glu Ile Ser Thr Pro Tyr
 65 70 75 80
 Thr Ser Arg Ile Ala Asp Gly Leu Ala Phe Phe Ile Ala Pro Pro Asp
 85 90 95
 Ser Val Ile Ser Tyr His Gly Gly Phe Leu Gly Leu Phe Pro Asn Ala
 100 105 110
 Asn Thr Leu Asn Asn Ser Ser Thr Ser Glu Asn Gln Thr Thr Thr Lys
 115 120 125
 Ala Ala Ser Ser Asn Val Val Ala Val Glu Phe Asp Thr Tyr Leu Asn
 130 135 140
 Pro Asp Tyr Gly Asp Pro Asn Tyr Ile His Ile Gly Ile Asp Val Asn
 145 150 155 160
 Ser Ile Arg Ser Lys Val Thr Ala Lys Trp Asp Trp Gln Asn Gly Lys
 165 170 175
 Ile Ala Thr Ala His Ile Ser Tyr Asn Ser Val Ser Lys Arg Leu Ser
 180 185 190
 Val Thr Ser Tyr Tyr Ala Gly Ser Lys Pro Ala Thr Leu Ser Tyr Asp
 195 200 205
 Ile Glu Leu His Thr Val Leu Pro Glu Trp Val Arg Val Gly Leu Ser
 210 215 220
 Ala Ser Thr Gly Gln Asp Lys Glu Arg Asn Thr Val His Ser Trp Ser
 225 230 235 240
 Phe Thr Ser Ser Leu Trp Thr Asn Val Ala Lys Lys Glu Asn Glu Asn
 245 250 255
 Lys Tyr Ile Thr Arg Gly Val Leu
 260

<210> 3
 <211> 1005
 <212> DNA
 <213> Dolichos lablab

<400> 3
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 tcagccgcac agtcattgtc atttagtttc accaagtttg atcctaacca agaggatctt 120
 atcttccaag gtcattgccac ttctacaaac aatgtcttac aagtcaccaa gttagacagt 180
 gcaggaaacc ctgtgagttc tagtgcgga agagtgttat attctgcacc attgcgcctt 240

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tggaagact ctgcggtatt gacaagcttt. gacaccatta tcaactttga aatctcaaca 300
ccttacactt ctcgatatagc tgatggcttg gccttcttca ttgcaccacc tgactctgtc 360
atcagttatc atgggtggtt tcttggactc tttcccaacg caaacactct caacaactct 420
tccacctctg aaaaccaaac caccactaag gctgcatcaa gcaacgttgt tgctgttgaa 480
tttgacacct atcttaatcc cgattatggt gatccaaact acatacacat cggaattgac 540
gtcaactcta ttagatccaa ggtaactgct aagtgggact ggcaaatgg gaaaatagcc 600
actgcacaca ttagctataa ctctgtctct aaaagactat ctgttactag ttattatgct 660
gggagtaaac ctgcgactct ctcctatgat attgagttac atacagtgtc tcctgaatgg 720
gtcagagtag ggttatctgc ttcaactgga caagataaag aaagaaatac cgttcactca 780
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attacaagag gcgttctgtg atgatatatg tgtatcaatg attttctatg ttataagcat 900
gtaatgtgag atgagtcaat aatcacaaag acagtgtagt acttgtatgt tgtttgtgta 960
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<210> 4

<211> 22

<212> PRT

<213> Dolichos lablab

<400> 4

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Met Ala Ser Ser Asn Leu Leu Thr Leu Ala Leu Phe Leu Val Leu Leu
  1             5             10             15

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```

Thr His Ala Asn Ser Ala
          20

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<210> 5

<211> 914

<212> DNA

<213> Phaseolus vulgaris

<400> 5

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caaggtgatg ccacttctac aaacaatgtc ttacaactca ctaagttaga cagtggagga 120
aaccctgtgg gtgctagtgt gggaagagtg ttattctctg caccatttca tctttgggaa 180
aactctatgg cagtgtcaag ctttgaaact aatctcacca ttcaaactc aacacctcac 240
ccttattatg cagctgatgg ctttgccttc ttccttgcac cacatgacac tgtcatccct 300
ccaaattctt ggggcaaatt ccttggactc tactcaaacg ttttcagaaa ctccccacc 360
tctgaaaacc aaagcttttg tgatgtcaat actgactcaa gagttgttgc tgtcgaattt 420
gacaccttcc ctaatgccaa tattgatcca aattacagac acattggaat cgatgtgaac 480
tctattaagt ccaaggaaac tgctaggttg gagtggcaaa atgggaaaac ggccactgca 540
cgcatcagct ataactctgc ctctaaaaaa tcaactgtta ctacgtttta tcctgggatg 600
gaagttgttg ctctctccca tgatgttgac ttacatgcag agcttcctga atgggttaga 660
gtaggggttat ctgcttcaac tggagaggag aaacaaaaaa ataccattat ctcatggtct 720
ttcaactcaa gcttgaagaa caacgaggtg aaggagccga aagaagacat gtatattgca 780
aacgttgtgc gatcatatac atggatcaat gacgttctat cttatataag caataataa 840
atgtatgatg cactcaataa taatcacaag tacgtacggt gtagtacttg tatgttgttt 900
atgaaaaaaa aaaa 914

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<210> 6

<211> 303

<212> PRT

<213> Phaseolus vulgaris

<400> 6

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			20					25					30		
Leu	Thr	Lys	Leu	Asp	Ser	Gly	Gly	Asn	Pro	Val	Gly	Ala	Ser	Val	Gly
		35					40					45			
Arg	Val	Leu	Phe	Ser	Ala	Pro	Phe	His	Leu	Trp	Glu	Asn	Ser	Met	Ala
	50					55					60				
Val	Ser	Ser	Phe	Glu	Thr	Asn	Leu	Thr	Ile	Gln	Ile	Ser	Thr	Pro	His
65					70					75					80
Pro	Tyr	Tyr	Ala	Ala	Asp	Gly	Phe	Ala	Phe	Phe	Leu	Ala	Pro	His	Asp
			85					90						95	
Thr	Val	Ile	Pro	Pro	Asn	Ser	Trp	Gly	Lys	Phe	Leu	Gly	Leu	Tyr	Ser
			100					105						110	
Asn	Val	Phe	Arg	Asn	Ser	Pro	Thr	Ser	Glu	Asn	Gln	Ser	Phe	Gly	Asp
		115					120					125			
Val	Asn	Thr	Asp	Ser	Arg	Val	Val	Ala	Val	Glu	Phe	Asp	Thr	Phe	Pro
	130					135					140				
Asn	Ala	Asn	Ile	Asp	Pro	Asn	Tyr	Arg	His	Ile	Gly	Ile	Asp	Val	Asn
145					150					155					160
Ser	Ile	Lys	Ser	Lys	Glu	Thr	Ala	Arg	Trp	Glu	Trp	Gln	Asn	Gly	Lys
			165					170						175	
Thr	Ala	Thr	Ala	Arg	Ile	Ser	Tyr	Asn	Ser	Ala	Ser	Lys	Lys	Ser	Thr
			180					185						190	
Val	Thr	Thr	Phe	Tyr	Pro	Gly	Met	Glu	Val	Val	Ala	Leu	Ser	His	Asp
		195					200					205			
Val	Asp	Leu	His	Ala	Glu	Leu	Pro	Glu	Trp	Val	Arg	Val	Gly	Leu	Ser
	210					215					220				
Ala	Ser	Thr	Gly	Glu	Glu	Lys	Gln	Lys	Asn	Thr	Ile	Ile	Ser	Trp	Ser
225					230					235					240
Phe	Thr	Ser	Ser	Leu	Lys	Asn	Asn	Glu	Val	Lys	Glu	Pro	Lys	Glu	Asp
			245					250						255	
Met	Tyr	Ile	Ala	Asn	Val	Val	Arg	Ser	Tyr	Thr	Trp	Ile	Asn	Asp	Val
		260						265					270		
Leu	Ser	Tyr	Ile	Ser	Asn	Lys	Met	Tyr	Asp	Ala	Leu	Asn	Asn	Asn	His
		275				280						285			
Lys	Tyr	Val	Arg	Cys	Ser	Thr	Cys	Met	Leu	Phe	Met	Lys	Lys	Lys	
	290					295					300				

<210> 7

<211> 678

<212> DNA

<213> *Sphenostylis stenocarpa*

<400> 7

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aatgtcatat	aactcaccaa	gttagacagt	aatggaaacc	ctgtgagtac	cagtgtggga	120
agagtgttat	actctgcacc	attgcgctt	tgggaaagct	ctacagtagt	gtcaaccttt	180
gagaccactt	tcacctttca	aatctcaaca	ccttacacta	gtcctcctgg	tgatgggctc	240
gccttcttcc	ttgcaccata	tgacactgtc	atccctccaa	attctgctgg	caatcttctt	300
ggactctttc	ctaacttaaa	tgctttaaga	aactccacca	ccagtaaaga	aaccactatt	360
gatgtcaatg	ctgcatctaa	caacgttggt	gccgttgaat	ttgacaccta	ccctaacgac	420
aatattgggtg	atccaagata	caaacacatt	ggaatcgatg	tcaactctat	caggtccaag	480
gcaactgttg	cgtgggactg	gcaaaatggg	aaaacagcca	ctgcacacat	cagctataac	540
tctgcctcta	aaagactatc	tgttactact	ttttatcctg	ggggtaaagc	tgtgagtctt	600

tcccatgacg ttgagctcac tcaagtgcct, cctcaatgga ttagagtagg gttctctgct 660
 tcaacaggat tagagaaa 678

<210> 8
 <211> 234
 <212> PRT
 <213> Sphenostylis stenocarpa

<400> 8

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 20 25 30
 Leu Thr Lys Leu Asp Ser Asn Gly Asn Pro Val Ser Thr Ser Val Gly
 35 40 45
 Arg Val Leu Tyr Ser Ala Pro Leu Arg Leu Trp Glu Ser Ser Thr Val
 50 55 60
 Val Ser Thr Phe Glu Thr Thr Phe Thr Phe Gln Ile Ser Thr Pro Tyr
 65 70 75 80
 Thr Ser Pro Pro Gly Asp Gly Leu Ala Phe Phe Leu Ala Pro Tyr Asp
 85 90 95
 Thr Val Ile Pro Pro Asn Ser Ala Gly Asn Leu Leu Gly Leu Phe Pro
 100 105 110
 Asn Leu Asn Ala Leu Arg Asn Ser Thr Thr Ser Lys Glu Thr Thr Ile
 115 120 125
 Asp Val Asn Ala Ala Ser Asn Asn Val Val Ala Val Glu Phe Asp Thr
 130 135 140
 Tyr Pro Asn Asp Asn Ile Gly Asp Pro Arg Tyr Lys His Ile Gly Ile
 145 150 155 160
 Asp Val Asn Ser Ile Arg Ser Lys Ala Thr Val Ala Trp Asp Trp Gln
 165 170 175
 Asn Gly Lys Thr Ala Thr Ala His Ile Ser Tyr Asn Ser Ala Ser Lys
 180 185 190
 Arg Leu Ser Val Thr Thr Phe Tyr Pro Gly Gly Lys Ala Val Ser Leu
 195 200 205
 Ser His Asp Val Glu Leu Thr Gln Val Leu Pro Gln Trp Ile Arg Val
 210 215 220
 Gly Phe Ser Ala Ser Thr Gly Leu Glu Lys
 225 230

<210> 9

<211> 15
 <212> PRT
 <213> *Sphenostylis stenocarpa*

<400> 9
 Ala Gln Ser Val Ser Phe Thr Phe Thr Lys Phe Asp Ser Asp Gln
 1 5 10 15

<210> 10
 <211> 16
 <212> PRT
 <213> *Sphenostylis stenocarpa*

<220>
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 <222> 14
 <223> Xaa = Any Amino Acid

<400> 10
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 1 5 10 15